

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1625JXC

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

|              |    |                 |  |
|--------------|----|-----------------|--|
| NEWS         | 1  |                 | Web Page for STN Seminar Schedule - N. America   |
| NEWS         | 2  | AUG 06          | CAS REGISTRY enhanced with new experimental property tags  |
| NEWS         | 3  | AUG 06          | FSTA enhanced with new thesaurus edition   |
| NEWS         | 4  | AUG 13          | CA/CAPplus enhanced with additional kind codes for granted patents   |
| NEWS         | 5  | AUG 20          | CA/CAPplus enhanced with CAS indexing in pre-1907 records  |
| NEWS         | 6  | AUG 27          | Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB   |
| NEWS         | 7  | AUG 27          | USPATOLD now available on STN  |
| NEWS         | 8  | AUG 28          | CAS REGISTRY enhanced with additional experimental spectral property data  |
| NEWS         | 9  | SEP 07          | STN AnaVist, Version 2.0, now available with Derwent World Patents Index   |
| NEWS         | 10 | SEP 13          | FORIS renamed to SOFIS   |
| NEWS         | 11 | SEP 13          | INPADOCDB enhanced with monthly SDI frequency  |
| NEWS         | 12 | SEP 17          | CA/CAPplus enhanced with printed CA page images from 1967-1998   |
| NEWS         | 13 | SEP 17          | CAPplus coverage extended to include traditional medicine patents  |
| NEWS         | 14 | SEP 24          | EMBASE, EMBAL, and LEMBASE reloaded with enhancements  |
| NEWS         | 15 | OCT 02          | CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt   |
| NEWS         | 16 | OCT 19          | BEILSTEIN updated with new compounds   |
| NEWS         | 17 | NOV 15          | Derwent Indian patent publication number format enhanced   |
| NEWS         | 18 | NOV 19          | WPIX enhanced with XML display format  |
| NEWS         | 19 | NOV 30          | ICSD reloaded with enhancements  |
| NEWS         | 20 | DEC 04          | LINPADOCDB now available on STN  |
| NEWS         | 21 | DEC 14          | BEILSTEIN pricing structure to change  |
| NEWS         | 22 | DEC 17          | USPATOLD added to additional database clusters   |
| NEWS         | 23 | DEC 17          | IMSDRUGCONF removed from database clusters and STN   |
| NEWS         | 24 | DEC 17          | DGENE now includes more than 10 million sequences  |
| NEWS         | 25 | DEC 17          | TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment  |
| NEWS         | 26 | DEC 17          | MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary   |
| NEWS         | 27 | DEC 17          | CA/CAPplus enhanced with new custom IPC display formats  |
| NEWS         | 28 | DEC 17          | STN Viewer enhanced with full-text patent content from USPATOLD  |
| NEWS         | 29 | JAN 02          | STN pricing information for 2008 now available   |
| NEWS EXPRESS | 19 | SEPTEMBER 2007: | CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007. |
| NEWS HOURS   |    |                 | STN Operating Hours Plus Help Desk Availability  |
| NEWS LOGIN   |    |                 | Welcome Banner and News Items  |
| NEWS IPC8    |    |                 | For general information regarding STN implementation of IPC 8  |

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 20:17:19 ON 06 JAN 2008

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE<br>ENTRY | TOTAL<br>SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST  | 0.63                | 0.63             |

FILE 'REGISTRY' ENTERED AT 20:19:11 ON 06 JAN 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 JAN 2008 HIGHEST RN 960040-46-4  
DICTIONARY FILE UPDATES: 4 JAN 2008 HIGHEST RN 960040-46-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

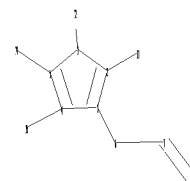
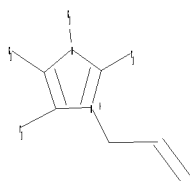
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10590549.str



```

chain nodes :
6  7  8  11 12 14 15
ring nodes :
1  2  3  4  5
chain bonds :
1-12 2-11 3-6  4-15 5-14 6-7  7-8
ring bonds :
1-2  1-5 2-3  3-4  4-5
exact/norm bonds :
1-2  1-5 1-12 2-3  2-11 3-4  3-6  4-5  4-15 5-14
exact bonds :
6-7  7-8

```

G1:H,Cb,Ak

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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS
12:CLASS 14:CLASS 15:CLASS

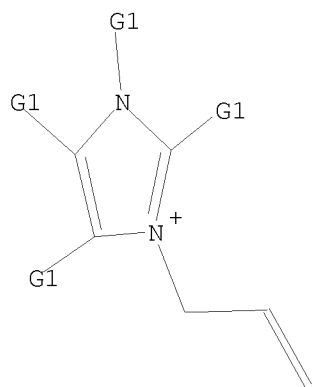
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L1 STRUCTURE UPLOADED

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=> d
L1 HAS NO ANSWERS
L1 STR

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G1 H,Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 20:19:30 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 344571 TO ITERATE

100.0% PROCESSED 344571 ITERATIONS

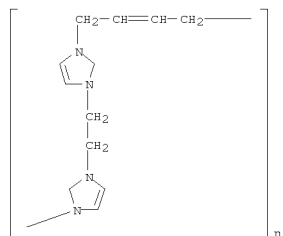
325 ANSWERS

SEARCH TIME: 00.00.06

L2 325 SEA SSS FUL L1

=> d l2 1-10

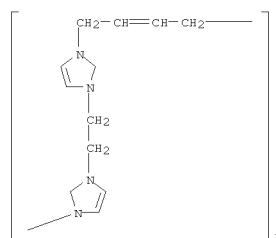
L2 ANSWER 1 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 952180-95-9 REGISTRY  
 ED Entered STN: 31 Oct 2007  
 CN Poly[1H-imidazolium-1,3-diyl-1,2-ethanediyl-1H-imidazolium-3,1-diyl-2-butene-1,4-diyl] (CA INDEX NAME)  
 MF (C12 H16 N4)n  
 CI PMS, COM  
 PCT Polyamine, Polyionene  
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 ANSWER 2 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 952068-00-7 REGISTRY  
 ED Entered STN: 30 Oct 2007  
 CN Poly[1H-imidazolium-1,3-diyl-1,2-ethanediyl-1H-imidazolium-1,3-diyl-2-butene-1,4-diyl bromide (1:2)] (CA INDEX NAME)  
 MF (C12 H16 N4)n . 2 Br  
 AF (C12 H16 N4 . 2 Br)n  
 CI PMS  
 PCT Polyamine, Polyionene  
 SR CA  
 LC STN Files: CA, CAPLUS

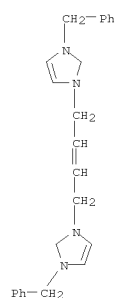
\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*  
 CRN (952180-95-9)



● 2 Br<sup>-</sup>

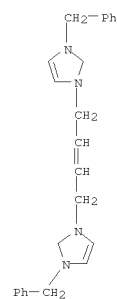
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 948353-04-6 REGISTRY  
 ED Entered STN: 27 Sep 2007  
 CN 1H-Imidazolium, 1,1'-(2-butene-1,4-diyl)bis[3-(phenylmethyl)- (CA INDEX NAME)  
 MF C24 H26 N4  
 CI COM  
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 ANSWER 4 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 948315-41-1 REGISTRY  
 ED Entered STN: 27 Sep 2007  
 CN 1H-Imidazolium, 1,1'-(2-butene-1,4-diyl)bis[3-(phenylmethyl)-, bromide (1:2) (CA INDEX NAME)  
 MF C24 H26 N4 . 2 Br  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT  
 CRN (948353-04-6)



● 2 Br<sup>-</sup>

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

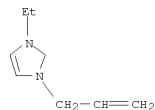
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 945732-42-3 REGISTRY  
 ED Entered STN: 29 Aug 2007  
 CN 1H-Imidazolium, 1-ethyl-3-(2-propen-1-yl)-, tetrafluoroborate(1-) (1:1)  
 (CA INDEX NAME)  
 MF C8 H13 N2 . B F4  
 SR CA  
 LC STN Files: CA, CAPLUS

CM 1

CRN 652134-10-6  
 CMP C8 H13 N2



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

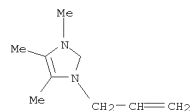
CM 2

CRN 14874-70-5  
 CMP B F4  
 CCI CCS



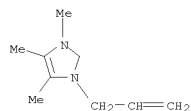
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 944643-04-3 REGISTRY  
 ED Entered STN: 14 Aug 2007  
 CN 1H-Imidazolium, 1,4,5-trimethyl-3-(2-propen-1-yl)- (CA INDEX NAME)  
 MF C9 H15 N2  
 CI CCM  
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 ANSWER 7 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 944559-83-5 REGISTRY  
 ED Entered STN: 14 Aug 2007  
 CN 1H-Imidazolium, 1,4,5-trimethyl-3-(2-propen-1-yl)-, bromide (1:1) (CA  
 INDEX NAME)  
 MF C9 H15 N2 . Br  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT  
 CRN (944643-04-3)



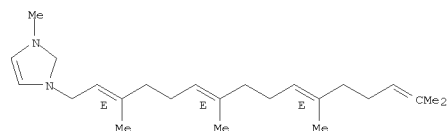
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 943298-51-9 REGISTRY  
 ED Entered STN: 24 Jul 2007  
 CN 1H-Imidazolium, 1-methyl-3-[(2E,6E,10E)-3,7,11,15-tetramethyl-2,6,10,14-hexadecatetraen-1-yl]- (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C24 H39 N2  
 CI CCM  
 SR CA

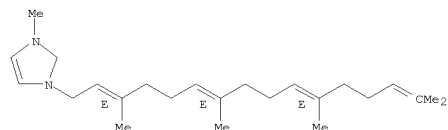
Double bond geometry as shown.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 ANSWER 9 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 943232-34-6 REGISTRY  
 ED Entered STN: 24 Jul 2007  
 CN 1R-Imidazolium, 1-methyl-3-[(2E,6E,10E)-3,7,11,15-tetramethyl-2,6,10,14-hexadecatetraen-1-yl]-, bromide (1:1) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C24 H39 N2 . Br  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT  
 CRN (943298-51-9)

Double bond geometry as shown.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

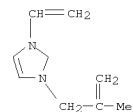
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1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 325 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 936030-59-0 REGISTRY  
 ED Entered STN: 29 May 2007  
 CN 1R-Imidazolium, 3-ethenyl-1-(2-methyl-2-propen-1-yl)-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)  
 MF C9 H13 N2 . B F4  
 SR CA  
 LC STN Files: CA, CAPLUS

CM 1

CRN 936030-58-9  
 CMF C9 H13 N2



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 14874-70-5  
 CMF B F4  
 CCI CCS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

Uploading C:\Program Files\Stnexp\Queries\10590549a.str



chain nodes :

6 7 8 11 12 14 15 16

ring nodes :

1 2 3 4 5

chain bonds :

1-12 2-11 3-6 4-15 5-14 6-7 7-8

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 1-12 2-3 2-11 3-4 3-6 4-5 4-15 5-14

exact bonds :

6-7 7-8

G1:H,Cb,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS  
12:CLASS 14:CLASS 15:CLASS 16:CLASS

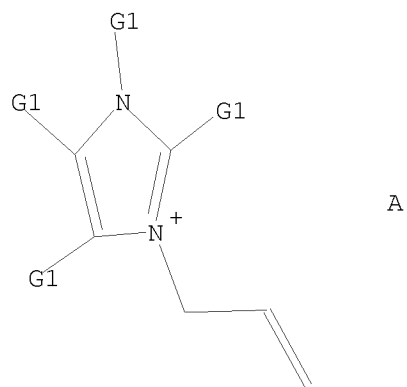
L3 STRUCTURE UPLOADED

=> d

L3 HAS NO ANSWERS

L3 STR





G1 H,Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 13 full

FULL SEARCH INITIATED 20:24:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 344571 TO ITERATE

100.0% PROCESSED 344571 ITERATIONS

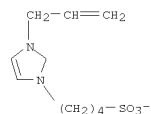
12 ANSWERS

SEARCH TIME: 00.00.06

L4 12 SEA SSS FUL L3

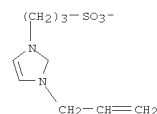
=> d 14 1-12

L4 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 905293-15-4 REGISTRY  
 ED Entered STN: 29 Aug 2006  
 CN 1H-Imidazolium, 1-(2-propenyl)-3-(4-sulfobutyl)-, inner salt (9CI) (CA INDEX NAME)  
 MF C10 H16 N2 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS



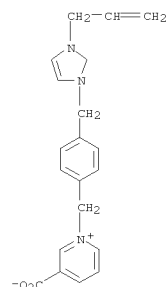
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 905293-13-2 REGISTRY  
 ED Entered STN: 29 Aug 2006  
 CN 1H-Imidazolium, 1-(2-propenyl)-3-(3-sulfopropyl)-, inner salt (9CI) (CA INDEX NAME)  
 MF C9 H14 N2 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS



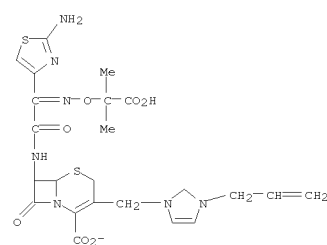
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 759412-31-2 REGISTRY  
 ED Entered STN: 08 Oct 2004  
 CN Pyridinium, 3-carboxy-1-[[4-[[3-(2-propenyl)-1H-imidazolium-1-yl]methyl]phenyl]methyl]-, mono(inner salt) (9CI) (CA INDEX NAME)  
 MF C20 H20 N3 O2  
 CI CCM  
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

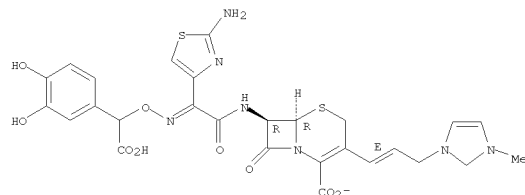
L4 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 749809-66-3 REGISTRY  
 ED Entered STN: 22 Sep 2004  
 CN 1H-Imidazolium, 1-[[[(6R,7R)-7-[[[(2Z)-(2-amino-4-thiazolyl)](1-carboxy-1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt (9CI) (CA INDEX NAME)  
 MF C23 H25 N7 O7 S2  
 CI CCM  
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

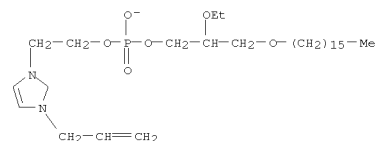
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 RN 155871-46-8 REGISTRY  
 ED Entered STN: 22 Jun 1994  
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 FS STEREOSEARCH  
 MF C27 H25 N7 O9 S2  
 SR CA  
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.  
 Double bond geometry as described by E or Z.



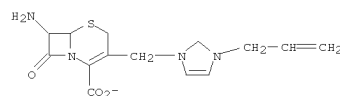
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 113521-14-5 REGISTRY  
 ED Entered STN: 26 Mar 1988  
 CN 1H-Imidazolium, 1-(7-ethoxy-4-hydroxy-4-oxido-3,5,9-trioxa-4-phosphapentacos-1-yl)-3-(2-propenyl)-, inner salt (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1H-Imidazolium, 1-(7-ethoxy-4-hydroxy-3,5,9-trioxa-4-phosphapentacos-1-yl)-3-(2-propenyl)-, inner salt, P-oxide  
 MF C29 H55 N2 O6 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)



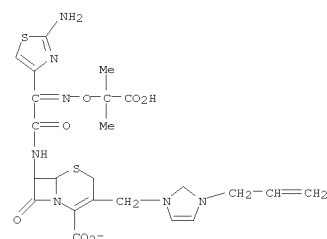
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108413-09-8 REGISTRY  
 ED Entered STN: 30 May 1987  
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 MF C14 H16 N4 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108412-81-3 REGISTRY  
 ED Entered STN: 30 May 1987  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[[carboxy(1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl)methyl]-3-(2-propenyl)-, inner salt, monopotassium salt, [6R-[6a,7β(Z)]]- (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL  
 CRN (749809-66-3)

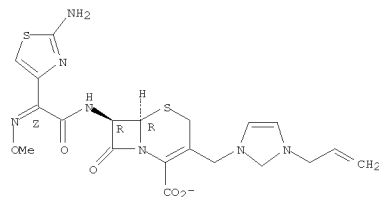


● K

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108412-70-0 REGISTRY  
 ED Entered STN: 30 May 1987  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, [6R-[6a,7ß(Z)]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C20 H21 N7 O5 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

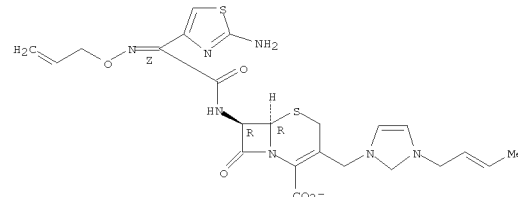
Absolute stereochemistry.  
 Double bond geometry as shown.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108412-57-3 REGISTRY  
 ED Entered STN: 30 May 1987  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[(2-propenyloxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-butenyl)-, inner salt, [6R-[6a,7ß(Z)]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H25 N7 O5 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

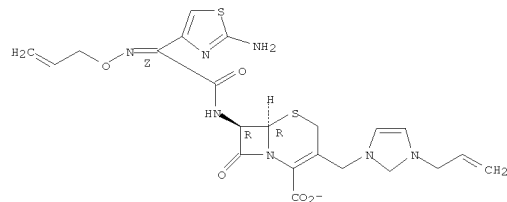
Absolute stereochemistry.  
 Double bond geometry as described by E or Z.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

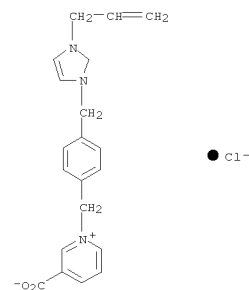
L4 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108412-43-7 REGISTRY  
 ED Entered STN: 30 May 1987  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[(2-propenyloxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, [6R-[6a,7ß(Z)]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H23 N7 O5 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

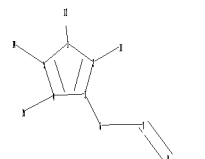
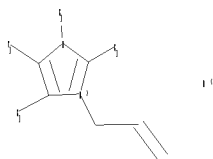
L4 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 84264-02-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Pyridinium, 3-carboxy-1-[[4-[[[3-(2-propenyl)-1H-imidazolium-1-yl]methyl]phenyl]methyl]-, inner salt, chloride (9CI) (CA INDEX NAME)  
 MF C20 H20 N3 O2 . Cl  
 LC STN Files: CA, CAPLUS  
 CRN (759412-31-2)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

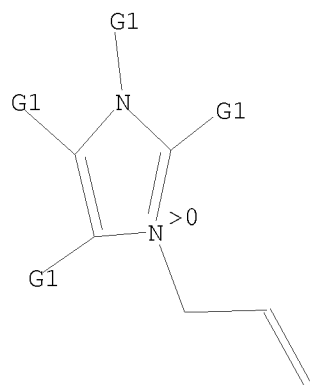
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Uploading C:\Program Files\Stnexp\Queries\10590549b.str



chain nodes :

6 7 8 11 12 14 15 16



A

G1 H,Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 15 full

FULL SEARCH INITIATED 20:26:09 FILE 'REGISTRY'

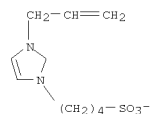
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100.0% PROCESSED 344571 ITERATIONS

SEARCH TIME: 00.00.06

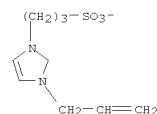
12 ANSWERS

L6 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 905293-15-4 REGISTRY  
 ED Entered STN: 29 Aug 2006  
 CN 1H-Imidazolium, 1-(2-propenyl)-3-(4-sulfobutyl)-, inner salt (9CI) (CA INDEX NAME)  
 MF C10 H16 N2 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS



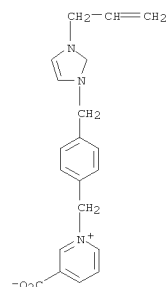
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 905293-13-2 REGISTRY  
 ED Entered STN: 29 Aug 2006  
 CN 1H-Imidazolium, 1-(2-propenyl)-3-(3-sulfopropyl)-, inner salt (9CI) (CA INDEX NAME)  
 MF C9 H14 N2 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS



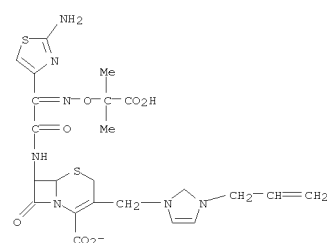
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 759412-31-2 REGISTRY  
 ED Entered STN: 08 Oct 2004  
 CN Pyridinium, 3-carboxy-1-[[4-[[3-(2-propenyl)-1H-imidazolium-1-yl]methyl]phenyl]methyl]-, mono(inner salt) (9CI) (CA INDEX NAME)  
 MF C20 H20 N3 O2  
 CI CCM  
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

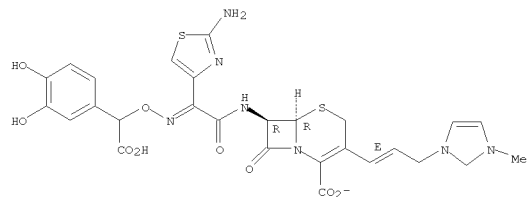
L6 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 749809-66-3 REGISTRY  
 ED Entered STN: 22 Sep 2004  
 CN 1H-Imidazolium, 1-[[[(6R,7R)-7-[[[(2Z)-(2-amino-4-thiazolyl)](1-carboxy-1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt (9CI) (CA INDEX NAME)  
 MF C23 H25 N7 O7 S2  
 CI CCM  
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

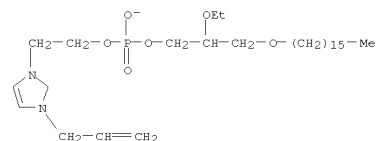
L6 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 155871-46-8 REGISTRY  
 ED Entered STN: 22 Jun 1994  
 CN 1H-Imidazolium, 1-[3-[7-[[[(2-amino-4-thiazolyl)[[carboxy(3,4-dihydroxyphenyl)methoxy]imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]-2-propenyl]-3-methyl-, inner salt, [6R-[3(E),6a,7β]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C27 H25 N7 O9 S2  
 SR CA  
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.  
 Double bond geometry as described by E or Z.



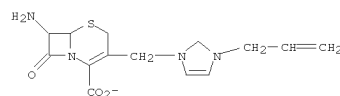
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 113521-14-5 REGISTRY  
 ED Entered STN: 26 Mar 1988  
 CN 1H-Imidazolium, 1-(7-ethoxy-4-hydroxy-4-oxido-3,5,9-trioxa-4-phosphapentacos-1-yl)-3-(2-propenyl)-, inner salt (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1H-Imidazolium, 1-(7-ethoxy-4-hydroxy-3,5,9-trioxa-4-phosphapentacos-1-yl)-3-(2-propenyl)-, inner salt, P-oxide  
 MF C29 H55 N2 O6 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)



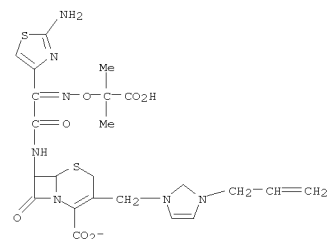
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108413-09-8 REGISTRY  
 ED Entered STN: 30 May 1987  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[[carboxy(1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, (6R-trans)- (9CI) (CA INDEX NAME)  
 MF C14 H16 N4 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108412-81-3 REGISTRY  
 ED Entered STN: 30 May 1987  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[[carboxy(1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, monopotassium salt, [6R-[6a,7β(Z)]]- (9CI) (CA INDEX NAME)  
 MF C23 H25 N7 O7 S2 . K  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL  
 CRN (749809-66-3)



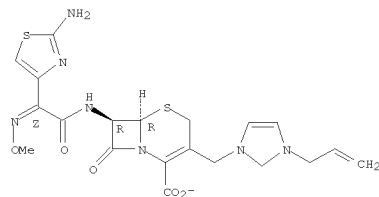
● K

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)



L6 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108412-70-0 REGISTRY  
 ED Entered STN: 30 May 1987  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, [6R-[6a,7ß(Z)]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C20 H21 N7 O5 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

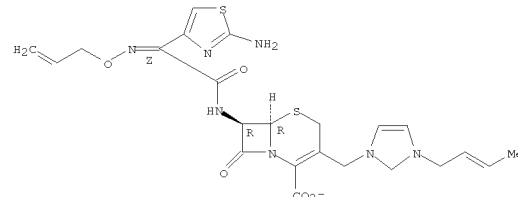
Absolute stereochemistry.  
 Double bond geometry as shown.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108412-57-3 REGISTRY  
 ED Entered STN: 30 May 1987  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[(2-propenyloxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-butenyl)-, inner salt, [6R-[6a,7ß(Z)]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H25 N7 O5 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

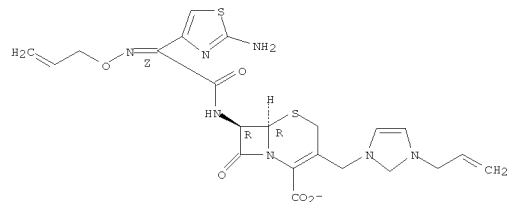
Absolute stereochemistry.  
 Double bond geometry as described by E or Z.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

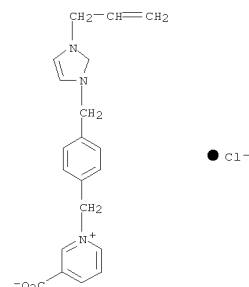
L6 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108412-43-7 REGISTRY  
 ED Entered STN: 30 May 1987  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[(2-propenyloxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, [6R-[6a,7ß(Z)]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H23 N7 O5 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 84264-02-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Pyridinium, 3-carboxy-1-[[4-[[[3-(2-propenyl)-1H-imidazolium-1-yl]methyl]phenyl]methyl]-, inner salt, chloride (9CI) (CA INDEX NAME)  
 MF C20 H20 N3 O2 . Cl  
 LC STN Files: CA, CAPLUS  
 CRN (759412-31-2)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus  
COST IN U.S. DOLLARS

|                     | SINCE FILE<br>ENTRY | TOTAL<br>SESSION |
|---------------------|---------------------|------------------|
| FULL ESTIMATED COST | 607.68              | 608.31           |

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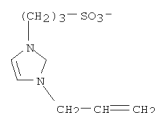
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FILE COVERS 1907 - 6 Jan 2008 VOL 148 ISS 2  
FILE LAST UPDATED: 4 Jan 2008 (20080104/ED)

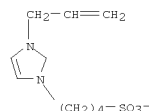
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<http://www.cas.org/infopolicy.html>

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:173994 CAPLUS  
 DOCUMENT NUMBER: 145:210336  
 TITLE: Acidic ionic liquid-modified silica gel as novel solid catalysts for esterification and nitration reactions  
 AUTHOR(S): Qiao, Kun; Hagiwara, Hisahiro; Yokoyama, Chiaki  
 CORPORATE SOURCE: Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, 2-1-1 Katahira, Aoba-ku, Sendai, 980-8577, Japan  
 SOURCE: Journal of Molecular Catalysis A: Chemical (2006), 246(1-2), 65-69  
 CODEN: JMCDF2; ISSN: 1381-1169  
 PUBLISHER: Elsevier B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Covalent bond immobilized ionic liqs. are prepared via radical chain transfer reaction of 1-allylimidazolium based ionic liqs. on modified silica gel and proved to be recyclable heterogeneous acidic catalysts for esterification and nitration reactions.  
 IT 905293-13-2F 905293-15-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of acidic ionic liquid-modified silica gel solid catalysts for esterification reaction of carboxylic acids with alcs. and nitration reaction of arenes with ammonia)  
 RN 905293-13-2 CAPLUS  
 CN 1H-Imidazolium, 1-(2-propenyl)-3-(3-sulfopropyl)-, inner salt (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 RN 905293-15-4 CAPLUS  
 CN 1H-Imidazolium, 1-(2-propenyl)-3-(4-sulfobutyl)-, inner salt (9CI) (CA INDEX NAME)

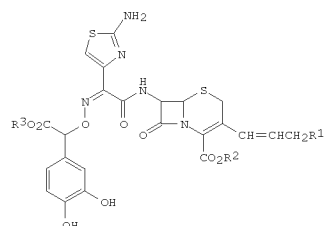


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1994:435176 CAPLUS  
 DOCUMENT NUMBER: 121:35176  
 TITLE: Cephalosporins containing an  $\alpha$ -carboxy-3,4-dihydroxybenzyloxyimino group, process and intermediates for their preparation, application as medicaments, and pharmaceutical compositions  
 PATENT ASSIGNEE(S): Roussel-UCLAF, Fr.  
 SOURCE: Fr. Demande, 57 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE        |
|------------------------|------|----------|-----------------|-------------|
| FR 2684995             | A1   | 19930618 | FR 1991-15417   | 19911212    |
| FR 2684995             | B1   | 19950428 |                 |             |
| US 5397779             | A    | 19950314 | US 1992-987007  | 19921207    |
| US 5373001             | A    | 19941213 | US 1993-96033   | 19930722    |
| US 5541318             | A    | 19960730 | US 1995-449243  | 19950524    |
| US 5936083             | A    | 19990810 | US 1996-625910  | 19960401    |
| PRIORITY APPLN. INFO.: |      |          | FR 1990-7491    | A 19900615  |
|                        |      |          | US 1991-715510  | B2 19910614 |
|                        |      |          | FR 1991-15417   | A 19911212  |
|                        |      |          | US 1992-987007  | A3 19921207 |
|                        |      |          | US 1993-106380  | A3 19930813 |
|                        |      |          | US 1995-449243  | A3 19950524 |

OTHER SOURCE(S): MARPAT 121:35176  
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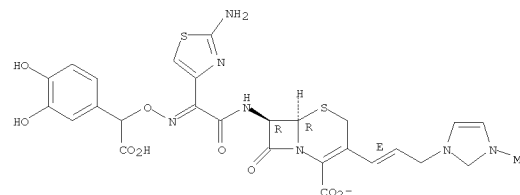


I

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

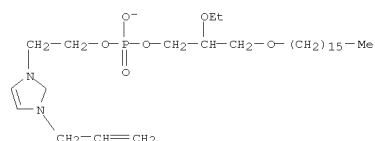
L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 AB Cephalosporins I [syn isomers, sidechain chiral center (R) or (S) or a mixture, sidechain double bond (E) or (Z); R1 = various heterocyclic, bicyclic, and acyclic quaternary ammonium groups bound at N; R2, R3 = H, neg. charge] and salts were prepared as antibiotics against gram-pos. and gram-neg. bacteria. The preps. (34 examples) involved amidation of the protected thiazoleacetic acid sidechain with the aminocephem nucleus, activation of the allylic sidechain chloride (R1 = Cl) as the iodide (R1 = iodo), quaternization of this with amines (e.g., furo[2,3-b]pyridine), and deprotection. Four tested I had MIC90 values ( $\mu\text{g}/\text{cm}^3$ ) of, e.g., 0.04-0.15 against Enterobacter cloacae 1321E, and 0.15-0.6 against Pseudomonas aeruginosa 1771 m.  
 IT 155871-46-8P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation of, as antibiotic)  
 RN 155871-46-8 CAPLUS  
 CN 1H-Imidazolium, 1-[3-[7-[[[(2-amino-4-thiazolyl)[[carboxy(3,4-dihydroxyphenyl)methoxy]imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]-2-propenyl]-3-methyl-, inner salt, [6R-(3E),6 $\alpha$ ,7R]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry as described by E or Z.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1988:124056 CAPLUS  
 DOCUMENT NUMBER: 108:124056  
 TITLE: Synthesis and platelet-aggregating action of structural analogs of platelet-activating factor with heterocyclic head groups  
 AUTHOR(S): Kertscher, H. P.; Ostermann, G.  
 CORPORATE SOURCE: Karl-Marx-Univ. Leipzig, Leipzig, Fed. Rep. Ger.  
 SOURCE: Pharmazie (1987), 42(11), 713-15  
 CODEN: PHARAT; ISSN: 0031-7144  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 AB Structural analogs of platelet-activating factor (PAF) containing an imidazole or thiazole as a polar head group were prepared. Compared with PAF, all analogs had lower human platelet-activating activity. The agonist behavior was related to the presence of a pos. charged polar head group.  
 IT 113521-14-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of and human blood platelet activation by, structure in relation to)  
 RN 113521-14-5 CAPLUS  
 CN 1H-Imidazolium, 1-(7-ethoxy-4-hydroxy-4-oxido-3,5,9-trioxo-4-phosphapentacos-1-yl)-3-(2-propenyl)-, inner salt (9CI) (CA INDEX NAME)

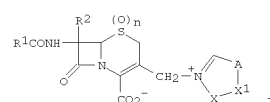


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1987:213645 CAPLUS  
 DOCUMENT NUMBER: 106:213645  
 TITLE: Preparation of cephalosporin derivatives for preventing and treating bacterial infections  
 INVENTOR(S): Shimabayashi, Akihiro  
 PATENT ASSIGNEE(S): Otsuka Chemical Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 114 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.                                | KIND | DATE     | APPLICATION NO. | DATE        |
|---|------|----------|-----------------|-------------|
| EP 214600                                 | A2   | 19870318 | EP 1986-112120  | 19860902    |
| EP 214600                                 | A3   | 19880928 |                 |             |
| EP 214600                                 | B1   | 19921202 |                 |             |
| R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE |      |          |                 |             |
| JP 62149681                               | A    | 19870703 | JP 1986-107262  | 19860510    |
| JP 07107069                               | B    | 19951115 |                 |             |
| CA 1299564                                | C    | 19920428 | CA 1986-517326  | 19860902    |
| AT 82976                                  | T    | 19921215 | AT 1986-112120  | 19860902    |
| ES 2001773                                | A6   | 19880616 | ES 1986-1599    | 19860903    |
| US 4906623                                | A    | 19900306 | US 1988-172937  | 19880325    |
| PRIORITY APPLN. INFO.:                    |      |          | JP 1985-194385  | A 19850903  |
|   |      |          | JP 1986-107262  | A 19860510  |
|   |      |          | EP 1986-112120  | A 19860902  |
|   |      |          | US 1986-902878  | A1 19860902 |

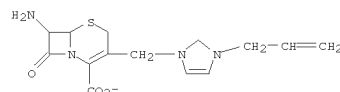
OTHER SOURCE(S): CASREACT 106:213645; MARPAT 106:213645  
 GI



AB Title compds. I (R1 = organic residue; R2 = H, MeO, n = 0, 1; A = NR4, N+R4R5.X-, R4, R5 = H, (un)substituted C1-12 alkyl, -C2-12 alkenyl, -C2-12 alkynyl, -Ph, H2N, HO, etc., X = halo, acid residue; X-X1 = R6C:CR7, substituted o-phenylene, R6, R7 = R4, R5) and their salts, useful as antibacterials, were prepared p-Methoxybenzyl  
 syn-7-[2-(2-aminothiazol-4-

yl)-2-(2-propenyloxyimino)acetamido]-3-(2-propenyl)-1-imidazoliummethyl]-3-cephem-4-carboxylate iodide, prepared in 6 steps from p-methoxybenzyl

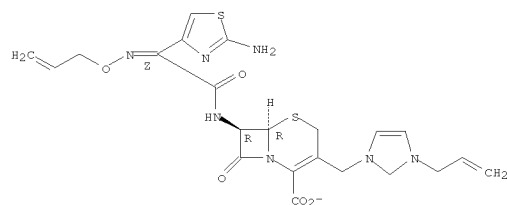
L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 7-amino-3-(chloromethyl)-3-cephem-4-carboxylate tosylate salt, in CH2Cl2 was treated with F3CCO2H and anisole to give syn-I [R = [(aminothiazolyl)[(2-propenyloxy)imino]methyl]; n = 0; A = H2C:CHCH2N; X-X1 = CH:CH] (II). II showed antibacterial activity in vitro against Staphylococcus aureus, Escherichia coli, and Serratia marcescens with a min. inhibitory concn. of 0.78 µg/mL.  
 IT 108413-09-8  
 RL: RCT (Reactant); RACT (Reactant or reagent) (condensation of, with bis(trimethylsilyl)acetamide and thiazolylacetic acid)  
 RN 108413-09-8 CAPLUS  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[(2-propenyloxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, (6R-trans)- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

IT 108412-43-7P 108412-57-3P 108412-70-0P  
 108412-81-3P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of, as antibacterial)  
 RN 108412-43-7 CAPLUS  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[(2-propenyloxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, [6R-[6α,7β(2)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry as shown.

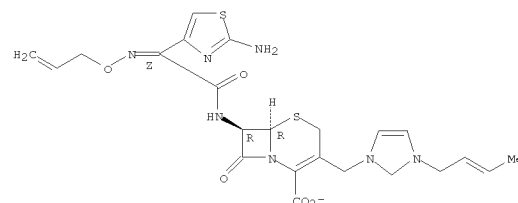


L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 108412-57-3 CAPLUS  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[(2-propenyloxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, [6R-[6α,7β(2)]]- (9CI) (CA INDEX NAME)

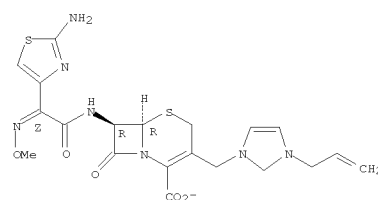
Absolute stereochemistry.  
 Double bond geometry as described by E or Z.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

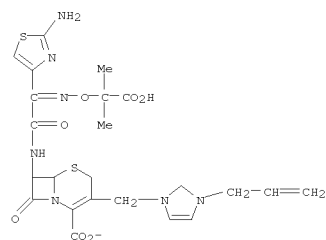
RN 108412-70-0 CAPLUS  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[(2-propenyloxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, [6R-[6α,7β(2)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry as shown.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 108412-81-3 CAPLUS  
 CN 1H-Imidazolium, 1-[[7-[[[(2-amino-4-thiazolyl)[(1-carboxy-1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-3-(2-propenyl)-, inner salt, monopotassium salt, [6R-[6α,7β(2)]]- (9CI) (CA INDEX NAME)



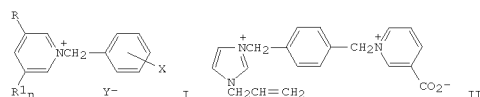
● K

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

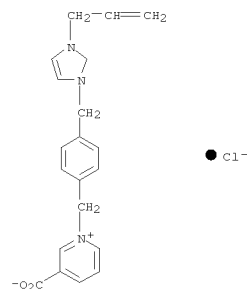
L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1983:53707 CAPLUS  
 DOCUMENT NUMBER: 98:53707  
 ORIGINAL REFERENCE NO.: 98:8257a, 8260a  
 TITLE: Reaction products from pyridinium compounds and amino compounds, and an aqueous alkaline zinc bath containing them  
 INVENTOR(S): Streit, Werner; Klahr, Erhard; Gotsmann, Guenther; Glaser, Klaus; Hettche, Albert  
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 18 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| DE 3114092             | A1   | 19821104 | DE 1981-3114092 | 19810408 |
| PRIORITY APPLN. INFO.: |      |          | DE 1981-3114092 | 19810408 |

GI



AB I (R = CONH2, CO2R1, CO2-; R1 = H or C1-4 alkyl; n = 1-4, X = Cl, Br; Y = Cl, Br) were prepared and used in Zn electroplating baths to give a shiny Zn deposit. Thus, nicotinic acid was quaternized with p-(ClCH2)2C6H4, and the product treated with 1-allylimidazole to give II.  
 IT 84264-02-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, and use in zinc electroplating baths)  
 RN 84264-02-8 CAPLUS  
 CN Pyridinium, 3-carboxy-1-[[4-[[3-(2-propenyl)-1H-imidazolium-1-yl]methyl]phenyl]methyl]-, inner salt, chloride (9CI) (CA INDEX NAME)

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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

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---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

|  |            |         |
|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 27.73      | 636.04  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | -4.00      | -4.00   |

STN INTERNATIONAL LOGOFF AT 20:27:36 ON 06 JAN 2008